

**PCT**

NOTIFICATION OF TRANSMITTAL  
OF COPIES OF TRANSLATION  
OF THE INTERNATIONAL PRELIMINARY REPORT  
ON PATENTABILITY  
(CHAPTER I OR CHAPTER II)  
OF THE PATENT COOPERATION TREATY)  
(PCT Rules 44bis.3(c) and 72.2)

Date of mailing (day/month/year)  
31 August 2006 (31.08.2006)

From the INTERNATIONAL BUREAU

To:

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Applicant's or agent's file reference  
KW303PC

**IMPORTANT NOTIFICATION**

International application No.  
PCT/JP2004/018536

International filing date (day/month/year)  
07 December 2004 (07.12.2004)

Applicant

KABUSHIKI KAISHA KENWOOD et al

**1. Transmittal of the translation to the applicant.**

- The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).
- The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

**2. Transmittal of the copy of the translation to the designated or elected Offices.**

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP, KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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**3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).**

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

**It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.**

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**TRANSLATION**

**PATENT COOPERATION TREATY**

**PCT**

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>KW303PC</b>	<b>FOR FURTHER ACTION</b>		See Form PCT/IPEA/416
International application No. <b>PCT/JP2004/018536</b>	International filing date (day/month/year) <b>07.12.2004</b>	Priority date (day/month/year) <b>08.12.2003</b>	
International Patent Classification (IPC) or national classification and IPC <b>H03M13/25, H04L27/12, H04L27/14</b>			
Applicant <b>KABUSHIKI KAISHA KENWOOD</b>			

<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <ul style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of <u>3</u> sheets, as follows:           <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</li> <li><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</li> </ul> </li> <li>b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</li> </ul> <p>4. This report contains indications relating to the following items:</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Box No. I Basis of the report</li> <li><input type="checkbox"/> Box No. II Priority</li> <li><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</li> <li><input type="checkbox"/> Box No. IV Lack of unity of invention</li> <li><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</li> <li><input type="checkbox"/> Box No. VI Certain documents cited</li> <li><input type="checkbox"/> Box No. VII Certain defects in the international application</li> <li><input type="checkbox"/> Box No. VIII Certain observations on the international application</li> </ul>
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Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/018536

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- This report is based on translations from the original language into the following language \_\_\_\_\_ which is the language of a translation furnished for the purposes of:
- international search (Rule 12.3 and 23.1(b))
  - publication of the international application (Rule 12.4)
  - international preliminary examination (Rule 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

- the international application as originally filed/furnished  
 the description:

pages 1-16 as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

- the claims:

nos. 2 as originally filed/furnished

nos.\* \_\_\_\_\_ as amended (together with any statement) under Article 19

nos.\* 5, 7 received by this Authority on 07.10.2005

nos.\* 1, 3, 6, 9, 10 received by this Authority on 10.01.2006

- the drawings:

sheets fig. 1-8 as originally filed/furnished

sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

- a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3.  The amendments have resulted in the cancellation of:

- the description, pages \_\_\_\_\_
- the claims, nos. 4, 8 \_\_\_\_\_
- the drawings, sheets/figs \_\_\_\_\_
- the sequence listing (specify): \_\_\_\_\_
- any table(s) related to sequence listing (specify): \_\_\_\_\_

4.  This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- the description, pages \_\_\_\_\_
- the claims, nos. \_\_\_\_\_
- the drawings, sheets/figs \_\_\_\_\_
- the sequence listing (specify): \_\_\_\_\_
- any table(s) related to sequence listing (specify): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP2004/018536
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Box No. V	<b>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</b>
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## 1. Statement

Novelty (N)	Claims	<u>2, 3, 5, 7</u>	YES
	Claims	<u>1, 6, 9, 10</u>	NO
Inventive step (IS)	Claims	<u>2, 3</u>	YES
	Claims	<u>1, 5-7, 9, 10</u>	NO
Industrial applicability (IA)	Claims	<u>1-3, 5-7, 9, 10</u>	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

Document 1: JP 2003-174485 A (Sony Corp.), 20 June 2003,  
 entire text, all drawings & WO 2003/049392  
 A1

Document 2: JP 11-220762 A (NTT Mobile Communications  
 Network Inc.), 10 August 1999, entire text,  
 all drawings & US 6512748 B1

Document 3: WO 2003/063465 A1 (Aviom, Inc.), 31 July  
 2003, claim 1; page 13, line 26 to page 15,  
 line 10; and page 17, lines 7 to 18 & JP  
 2005-516485 A & US 2003/0161324 A1 & US  
 2003/0161347 A1 & US 2003/0161354 A1 & US  
 2003/0165163 A1 & US 2003/0167425 A1 & EP  
 1476947 A1

Document 3 is newly cited in the present  
 international preliminary report on patentability.

Claims 1, 6, 9 and 10

Document 3, which is newly cited in the present  
 international preliminary report on patentability,  
 discloses a transmission device for applying an error  
 correction algorithm (i.e., "generating encoded data by  
 adding redundant bits") to only the 11 high-priority bits

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

International application No.

PCT/JP2004/018536

**Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

(i.e., the "prescribed set of important bits") among the 24 bits that constitute the audio or video information and then transmitting the resulting audio or video information; therein, document 3 also discloses a reception device for receiving the information in question.

**Claims 5 and 7**

Document 2 discloses a technique for modulating and demodulating by means of a multi-value FSK system.

Such being the case, it is thought that a person skilled in the art could employ the multi-value FSK system disclosed in document 2 as the signal transceiver in the invention disclosed in document 3, as appropriate.

**Claims 2 and 3**

Documents 1 and 3 do not disclose or suggest the feature wherein redundant bits are added to prescribed sets of important bits so as to increase the Euclidean distance between the sets of data to which the redundant bits are added, or the feature wherein redundant bits are added to prescribed sets of important bits so as to generate a gray code.